

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	("6274323").PN.	USPAT; USOCR	OR	OFF	2006/04/30 17:24
S2	116	(double adj sandwich) and assay	USPAT	OR	OFF	2006/04/26 08:17
S3	64	S2 and flow	USPAT	OR	OFF	2006/04/26 08:17
S4	64	S3 not @ay>"2002"	USPAT	OR	OFF	2006/04/26 08:17
S5	173	(double adj sandwich) and assay	US-PGPUB; USPAT	OR	ON	2006/04/26 08:17
S6	64	S5 and flow	USPAT	OR	OFF	2006/04/26 08:17
S7	64	S6 not @ay>"2002"	USPAT	OR	OFF	2006/04/26 09:11
S8	46329	((flow adj cell) or (flow adj through)) and (membrane or porous)	USPAT	OR	OFF	2006/04/26 09:12
S9	12273	((flow adj cell) or (flow adj through)) same (membrane or porous)	USPAT	OR	OFF	2006/04/26 09:13
S10	763	S9 and ((membrane or porous) with immobiliz\$)	USPAT	OR	OFF	2006/04/26 09:14
S11	752	S10 not @ay>"2002"	USPAT	OR	OFF	2006/04/26 09:14
S12	23698	((flow adj cell) or (flow adj through)) same (membrane or porous)	US-PGPUB; USPAT	OR	ON	2006/04/26 09:14
S13	1610	S12 and ((membrane or porous) with immobiliz\$)	US-PGPUB; USPAT	OR	ON	2006/04/26 09:14
S14	1271	S13 not @ay>"2002"	US-PGPUB; USPAT	OR	ON	2006/04/26 09:14
S15	417	S14 and (sandwich with assay)	US-PGPUB; USPAT	OR	ON	2006/04/26 09:14
S16	2819	(flow with through) and (membrane or (porous with adsorptive)) and elisa	USPAT	OR	OFF	2006/04/26 16:33
S17	7122	(flow with through) and (membrane or (porous with adsorptive)) and elisa	US-PGPUB; USPAT	OR	ON	2006/04/26 17:00
S18	1332	S17 and ((membrane or (porous with adsorptive)) with immobiliz\$)	US-PGPUB; USPAT	OR	ON	2006/04/26 17:01
S19	1024	S18 not @ay>"2002"	US-PGPUB; USPAT	OR	ON	2006/04/26 17:01
S20	438	S19 and pump\$	US-PGPUB; USPAT	OR	ON	2006/04/26 15:01
S21	124	S20 and ((membrane or (porous with adsorptive)) with (elisa or enzyme))	US-PGPUB; USPAT	OR	ON	2006/04/26 15:42

## EAST Search History

S22	18	S21 and ((flow with through) same (membrane or (porous with adsorptive)))	US-PGPUB; USPAT	OR	ON	2006/04/26 15:19
S23	106	S21 not S22	US-PGPUB; USPAT	OR	ON	2006/04/26 16:31
S24	2534	((356/244) or (356/246)).CCLS.	USPAT; USOCR	OR	OFF	2006/04/26 16:31
S27	492	S24 and (flow with cell)	USPAT	OR	ON	2006/04/26 16:32
S28	53	S27 and (membrane or (porous with adsorptive))	USPAT	OR	OFF	2006/04/26 16:41
S29	21	S28 and immobiliz\$	USPAT	OR	OFF	2006/04/26 16:42
S30	10	S29 and pump	USPAT	OR	ON	2006/04/26 16:42
S31	1258	(flow adj cell) and (membrane or (porous with adsorptive)) and elisa	US-PGPUB; USPAT	OR	ON	2006/04/26 17:01
S32	229	S31 and ((membrane or (porous with adsorptive)) with immobiliz\$)	US-PGPUB; USPAT	OR	ON	2006/04/26 17:01
S33	162	S32 not @ay>"2002"	US-PGPUB; USPAT	OR	ON	2006/04/26 17:46
S34	1	("6462809").PN.	USPAT; USOCR	OR	OFF	2006/04/26 18:36
S35	2138	((436/52) or (435/286.5) or (435/287.9) or (435/288.5) or (435/289.1)).CCLS.	USPAT; USOCR	OR	OFF	2006/04/26 18:37
S36	817	S35 and pump	USPAT	OR	OFF	2006/04/26 18:37
S37	881	S35 and pump	US-PGPUB; USPAT	OR	ON	2006/04/26 18:37
S38	297	S37 and immobiliz\$	US-PGPUB; USPAT	OR	ON	2006/04/26 18:38
S39	59	S38 and (elisa or enzyme-linked or (enzyme adj linked))	US-PGPUB; USPAT	OR	ON	2006/04/26 18:38
S40	2561	((flow adj cell) or (flow adj through) or (flow with (porous or absorptive or absorbent))) and (receptor or ligand) and (elisa or enzyme-linked or (enzyme with label))	USPAT	OR	OFF	2006/04/30 17:26
S41	234160	((435/\$.ccls.) or (436/\$.ccls.) or (422/\$.ccls.) or (356/\$.ccls.)).CCLS.	USPAT; USOCR	OR	OFF	2006/04/30 17:27
S42	1877	S40 and S41	USPAT	OR	OFF	2006/04/30 17:27
S43	1836	S42 not @ay>"2002"	USPAT	OR	OFF	2006/04/30 17:49
S44	138	S43 and ((label or labeling or labeled or labels) with analyte) and (isolate or isolating or isolated with analyte)	USPAT	OR	OFF	2006/04/30 17:47

## EAST Search History

S45	321	((porous or absorptive or absorbent) with matrix) with binding	USPAT	OR	OFF	2006/04/30 17:49
S46	151	S41 and S45	USPAT	OR	OFF	2006/04/30 17:49
S47	148	S46 not @ay>"2002"	USPAT	OR	OFF	2006/04/30 17:50
S48	65	S47 and (pump or vacuum)	USPAT	OR	OFF	2006/04/30 18:27
S49	1	("4292403").PN.	USPAT; USOCR	OR	OFF	2006/04/30 18:31
S50	59	((isolate or isolation or isolates or isolated) with analyte) same ((label or labeling or labeled or labels) with analyte)	USPAT	OR	OFF	2006/04/30 18:33
S51	17	S50 and ((label or labeled or labelling or labels) with enzyme)	USPAT	OR	OFF	2006/04/30 18:47
S52	50	double with sandwich with antibody with antibody with antigen with antigen	USPAT	OR	OFF	2006/04/30 19:17
S53	0	(triple adj antigen adj sandwich) same assay	USPAT	OR	OFF	2006/04/30 19:17
S54	7	(triple adj sandwich) same assay	USPAT	OR	OFF	2006/04/30 21:53
S55	1	("6462809").PN.	USPAT; USOCR	OR	OFF	2006/04/30 21:54
S56	712	((flow adj cell) or (flow adj through)) and ((matrix or absorptive or absorbent) with immobilized) and (enzyme or elisa)	USPAT	OR	OFF	2006/04/30 21:56
S57	361	((flow adj cell) or (flow adj through)) and ((matrix or absorptive or absorbent) with immobilized) and ((enzyme with label) or elisa)	USPAT	OR	OFF	2006/04/30 22:29
S58	234160	((435/\$.ccls.) or (436/\$.ccls.) or (422/\$.ccls.) or (356/\$.ccls.)).CCLS.	USPAT; USOCR	OR	OFF	2006/04/30 21:58
S59	297	S57 and S58	USPAT	OR	OFF	2006/04/30 21:58
S60	289	S59 not @ay>"2002"	USPAT	OR	OFF	2006/04/30 22:30
S61	162	S60 and (pump or vacuum)	USPAT	OR	OFF	2006/04/30 22:23
S62	1	("5716791").PN.	USPAT; USOCR	OR	OFF	2006/04/30 22:20
S63	352	S57 not @ay>"2002"	USPAT	OR	OFF	2006/04/30 22:22
S64	204	S63 and (pump or vacuum)	USPAT	OR	ON	2006/04/30 22:23
S65	42	S64 not S61	USPAT	OR	ON	2006/04/30 22:23

## EAST Search History

S66	631	flow and ((matrix or absorptive or absorbent) with immobilized) and ((enzyme with label) or elisa) and (luminescent or luminescence or chemiluminescent or chemiluminescence)	USPAT	OR	OFF	2006/04/30 22:33
S67	537	S58 and S66	USPAT	OR	OFF	2006/04/30 22:30
S68	330	S67 and (pump or pumping or vacuum)	USPAT	OR	OFF	2006/04/30 22:30
S69	321	S68 not @ay>"2002"	USPAT	OR	OFF	2006/04/30 22:31
S71	202	S69 not S61	USPAT	OR	OFF	2006/04/30 22:31
S72	202	S71 not S65	USPAT	OR	OFF	2006/04/30 22:31
S73	100	flow and ((porous) with immobilized) and ((enzyme with label) or elisa) and (luminescent or luminescence or chemiluminescent or chemiluminescence)	USPAT	OR	OFF	2006/04/30 22:33
S74	88	S73 not S72	USPAT	OR	OFF	2006/04/30 22:43
S75	1	("6490034").PN.	USPAT; USOCR	OR	OFF	2006/04/30 22:43

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2258	((flow adj through) or microfluidic) and pump and elisa	US-PGPUB; USPAT	OR	ON	2006/04/26 12:49
S2	123	((flow adj through) or microfluidic) and pump and (elisa with membrane)	US-PGPUB; USPAT	OR	ON	2006/04/26 12:53
S3	71	S2 not @ay>"2002"	US-PGPUB; USPAT	OR	ON	2006/04/26 12:54
S4	201	((flow adj through) or microfluidic) and pump and (elisa with immobiliz\$)	US-PGPUB; USPAT	OR	ON	2006/04/26 12:54
S5	99	S4 not @ay>"2002"	US-PGPUB; USPAT	OR	ON	2006/04/26 12:54
S7	90	((flow adj through) or microfluidic) and pump and (porous with immobiliz\$) and (elisa or (enzyme-linked))	US-PGPUB; USPAT	OR	ON	2006/04/26 12:54
S8	90	((flow adj through) or microfluidic) and pump and (porous with immobiliz\$) and (elisa or (enzyme-linked))	US-PGPUB; USPAT	OR	ON	2006/04/26 14:46
S9	57	S8 not @ay>"2002"	US-PGPUB; USPAT	OR	ON	2006/04/27 09:14
S10	2138	((436/52) or (435/286.5) or (435/287.9) or (435/288.5) or (435/289.1)).CCLS.	USPAT; USOCR	OR	OFF	2006/04/27 09:14
S11	87	S10 and ((flow adj cell) or (flow adj through)) and (immobiliz\$ with (membrane or adsorbent or adsorptive))	USPAT	OR	OFF	2006/04/27 09:16
S12	86	S11 not @ay>"2002"	USPAT	OR	OFF	2006/04/27 09:16
S13	86	S11 not @ay>"2002"	US-PGPUB; USPAT	OR	OFF	2006/04/27 09:19
S14	17	S13 and (elisa or enzyme-linked or (enzyme adj linked))	US-PGPUB; USPAT	OR	OFF	2006/04/27 09:19
S15	2138	((436/52) or (435/286.5) or (435/287.9) or (435/288.5) or (435/289.1)).CCLS.	USPAT; USOCR	OR	OFF	2006/04/27 10:52
S16	87	S15 and ((flow adj cell) or (flow adj through)) and (immobiliz\$ with (membrane or adsorbent or adsorptive))	USPAT	OR	OFF	2006/04/27 11:07
S17	86	S16 not @ay>"2002"	US-PGPUB; USPAT	OR	OFF	2006/04/27 11:07

## EAST Search History

S18	17	S17 and (elisa or enzyme-linked or (enzyme adj linked))	US-PGPUB; USPAT	OR	OFF	2006/04/27 10:53
S19	48	S17 and label\$	US-PGPUB; USPAT	OR	OFF	2006/04/27 10:53
S20	49	S17 and (label\$ or tag or tagged)	US-PGPUB; USPAT	OR	ON	2006/04/27 11:07
S21	49	S17 and (label\$ or tag or tagged or tagging)	US-PGPUB; USPAT	OR	ON	2006/04/27 11:03
S22	27	S21 and pump\$	US-PGPUB; USPAT	OR	ON	2006/04/27 11:06
S24	8644	((flow adj through adj device) or (flow adj cell)) and (pump\$ or vacuum\$)	US-PGPUB; USPAT	OR	ON	2006/04/27 11:37
S25	236	S24 and (immobiliz\$ with (membrane or adsorbent or adsorptive))	USPAT	OR	OFF	2006/04/27 11:07
S26	234	S25 not @ay>"2002"	US-PGPUB; USPAT	OR	OFF	2006/04/27 11:30
S28	137	S26 and (label\$ or tag or tagged)	US-PGPUB; USPAT	OR	ON	2006/04/27 11:25
S29	234160	((435/\$.ccls.) or (436/\$.ccls.) or (422/\$.ccls.) or (356/\$.ccls.)).CCLS.	USPAT; USOCR	OR	OFF	2006/04/27 11:13
S30	123	S28 and S29	USPAT	OR	OFF	2006/04/27 11:13
S31	111	S26 not S30	US-PGPUB; USPAT	OR	OFF	2006/04/27 11:24
S32	111	S31 and immobiliz\$	US-PGPUB; USPAT	OR	OFF	2006/04/27 11:31
S33	19	S32 and (label\$ or tag or tagged or elisa or enzyme-linked or (enzyme adj linked))	US-PGPUB; USPAT	OR	ON	2006/04/27 11:30
S34	2144	S24 and immobiliz\$	US-PGPUB; USPAT	OR	ON	2006/04/27 11:29
S35	1746	S34 and (label\$ or tag or tagged or elisa or enzyme-linked or (enzyme adj linked))	US-PGPUB; USPAT	OR	ON	2006/04/27 11:39
S36	547	S35 and S29	US-PGPUB; USPAT	OR	ON	2006/04/27 11:30
S37	530	S36 not @ay>"2002"	US-PGPUB; USPAT	OR	OFF	2006/04/27 11:38
S38	870	((435/287.7) or (435/287.9)).CCLS.	USPAT; USOCR	OR	OFF	2006/04/27 11:31
S40	29	S37 and S38	USPAT	OR	OFF	2006/04/27 11:32
S41	28	S40 not S33	USPAT	OR	OFF	2006/04/27 11:32

## EAST Search History

S42	629	((flow adj through adj device) or (flow adj cell)) and (immobiliz\$ with (membrane or absorbent or absortve))	US-PGPUB; USPAT	OR	ON	2006/04/27 11:38
S43	471	S42 not @ay>"2002"	US-PGPUB; USPAT	OR	OFF	2006/04/27 11:38
S44	367	S43 and (label\$ or tag or tagged or elisa or enzyme-linked or (enzyme adj linked))	US-PGPUB; USPAT	OR	ON	2006/04/27 11:39
S45	352	S44 not S32	US-PGPUB; USPAT	OR	ON	2006/04/27 11:39
S46	234	S45 not S30	US-PGPUB; USPAT	OR	ON	2006/04/27 11:40
S47	229	S46 not S41	US-PGPUB; USPAT	OR	ON	2006/04/27 11:40
S48	221	S47 not S21	US-PGPUB; USPAT	OR	ON	2006/04/27 11:40
S49	0	kenji-nakajima.in.	US-PGPUB; USPAT	OR	OFF	2006/05/01 10:17

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	(labeled adj.analyte) with (triple with sandwich)	USPAT	OR	OFF	2006/05/01 10:14
S2	0	(labeled adj analyte) same (triple with sandwich)	USPAT	OR	OFF	2006/05/01 10:14
S3	3	(labeled adj analyte) and (triple with sandwich)	USPAT	OR	OFF	2006/05/01 10:15
S4	0	(labeled adj analyte) with (triple with sandwich)	USPAT	OR	OFF	2006/05/01 10:18
S5	0	(labeled adj analyte) same (triple with sandwich)	USPAT	OR	OFF	2006/05/01 10:18
S6	3	(labeled adj analyte) and (triple with sandwich)	USPAT	OR	OFF	2006/05/01 10:18
S8	3	(label\$ with analyte) and (triple with sandwich)	USPAT	OR	OFF	2006/05/01 10:18
S9	76	(label\$ with analyte) and (double with sandwich)	USPAT	OR	OFF	2006/05/01 10:21
S10	0	("10426386").PN.	USPAT; USOCR	OR	OFF	2006/05/01 10:22
S11	1	("5040890").PN.	USPAT; USOCR	OR	OFF	2006/05/01 10:29
S12	114	(precomplex or (immobilization with complex)) and (elisa or (enzyme-linked) or (enzyme adj linked))	USPAT	OR	OFF	2006/05/01 10:30
S13	112	S12 not @ay>"2002"	USPAT	OR	OFF	2006/05/01 11:00
S14	30	S13 and (analyte with complex)	USPAT	OR	OFF	2006/05/01 10:42
S15	19	triple with elisa	USPAT	OR	OFF	2006/05/01 10:59
S16	0	S15 and (preformed or preform)	USPAT	OR	OFF	2006/05/01 10:45
S17	0	S15 and (precomplex or pre-complex or (immobilized with complex))	USPAT	OR	OFF	2006/05/01 10:45
S18	0	S15 and (label\$ with analyte)	USPAT	OR	OFF	2006/05/01 10:46
S19	0	S15 and (isolat\$ with analyte)	USPAT	OR	OFF	2006/05/01 10:46
S20	0	S15 and (purif\$ with analyte)	USPAT	OR	OFF	2006/05/01 10:46
S21	0	S15 and (pre-labeled)	USPAT	OR	OFF	2006/05/01 10:47
S22	207	(pre-labeled) and elisa	USPAT	OR	OFF	2006/05/01 10:48
S23	0	(pre-labeled) and (elisa with double)	USPAT	OR	OFF	2006/05/01 10:47
S24	2	(pre-labeled) and (sandwich with double)	USPAT	OR	OFF	2006/05/01 10:47
S25	0	(pre-labeled with antigen) and elisa	USPAT	OR	OFF	2006/05/01 10:48



## EAST Search History

S26	0	(pre-labeled with analyte) and elisa	USPAT	OR	OFF	2006/05/01 10:48
S27	170	(pre-labeled with (protein or antibody)) and elisa	USPAT	OR	OFF	2006/05/01 10:49
S28	0	(pre-labeled with antigen with antibody) and elisa	USPAT	OR	OFF	2006/05/01 10:49
S29	1	(pre-label\$ with antigen with antibody) and elisa	USPAT	OR	OFF	2006/05/01 10:49
S30	133	(analyte with label with complex) and (antibody with enzyme with complex) and (elisa or sandwich or enzyme-linked or (enzyme adj linked))	US-PGPUB; USPAT	OR	ON	2006/05/01 12:15
S31	91	S30: not @ay>"2002"	USPAT	OR	OFF	2006/05/01 11:03
S32	1	("4235960").PN.	USPAT; USOCR	OR	OFF	2006/05/01 11:03
S33	1	("4624930").PN.	USPAT; USOCR	OR	OFF	2006/05/01 12:16
S34	1	("4343896").PN.	USPAT; USOCR	OR	OFF	2006/05/01 13:07
S35	1	("4034074").PN.	USPAT; USOCR	OR	OFF	2006/05/01 13:17
S36	2	("2190490").PN.	USPAT; USOCR	OR	OFF	2006/05/01 13:18
S37	1	("4496654").PN.	USPAT; USOCR	OR	OFF	2006/05/01 15:22
S38	34714	(biotin or biotinylated) with (analyte or oligonucleotide or nucleic or protein or antibody)	US-PGPUB; USPAT	OR	ON	2006/05/01 15:25

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	95	(reverse adj sandwich) with assay	USPAT	OR	OFF	2006/05/12 09:09
S2	22	S1 and (indirect\$ with label\$)	USPAT	OR	OFF	2006/05/12 09:11
S3	95	(reverse adj sandwich) with assay	USPAT	OR	OFF	2006/05/12 14:48
S4	22	S3 and (indirect\$ with label\$)	USPAT	OR	OFF	2006/05/12 12:10
S5	73	S3 not S4	USPAT	OR	OFF	2006/05/12 12:26
S6	73	S5 and (label\$ or tag)	USPAT	OR	OFF	2006/05/12 13:42
S7	22	S3 not S6	USPAT	OR	OFF	2006/05/12 13:44
S8	73	(reverse adj sandwich) and (amplification or amplify or amplified)	USPAT	OR	OFF	2006/05/12 13:50
S9	22	S8 and linker	USPAT	OR	OFF	2006/05/12 13:50
S10	22	S9 not S7	USPAT	OR	OFF	2006/05/12 13:50
S11	9	S9 not S5	USPAT	OR	OFF	2006/05/12 13:53
S12	123	(435/969).CCLS.	USPAT; USOCR	OR	OFF	2006/05/12 13:53
S13	1	S12 and (reverse adj sandwich)	USPAT	OR	OFF	2006/05/12 13:56
S14	4	S12 and ((sample or analyte) with (initial or initially) with (label or labelled or tag or tagged))	USPAT	OR	ON	2006/05/12 13:59
S15	0	((sample or analyte) with (initial or initially) with (label or labelled or tag or tagged)) and ((buildup or build-up) with label)	USPAT	OR	ON	2006/05/12 13:59
S16	20	((sample or analyte) with (initial or initially) with (label or labelled or tag or tagged)) and ((multiple) with label)	USPAT	OR	ON	2006/05/12 13:59
S17	9	S16 and (small with (sample or analyte))	USPAT	OR	ON	2006/05/12 14:04
S18	11	S16 not S17	USPAT	OR	ON	2006/05/12 14:05
S19	4	(biotin with build-up)	USPAT	OR	ON	2006/05/12 14:09
S20	67	(biotin with increas\$ with sensitivity)	USPAT	OR	ON	2006/05/12 14:14
S21	109	(reverse adj sandwich) same assay	USPAT	OR	OFF	2006/05/12 14:48
S22	9	S21 and (amplif\$ with antibody)	USPAT	OR	ON	2006/05/12 15:01
S23	3	S21 and ((preform or preformed) with antibody)	USPAT	OR	ON	2006/05/12 15:01
S24	137	(amplif\$ with antibody) with elisa	USPAT	OR	ON	2006/05/12 15:02
S25	15	S24 and (third with antibody)	USPAT	OR	ON	2006/05/12 15:02